Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/C-Agg/137/2019-20	Date	13.11.2019

TEST REPORT ON COARSE AGGREGATE

Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Job Code No	003-20-000070
Client's letter dated	11.11.2019
Source of Sample	Supplied by the Client
No. of Sample*	Coarse Aggregate - 20mm
Date of Testing	12.11.2019
Technical Reference	IS: 2386 (Part I)– 1963 IS: 383 – 2016

Gradation of 20mm Aggregate

20mm	Weight of Sample in gm		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of soil	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	450	9.00	9.00	91.00	85-100	90 to 100	
10	4410	88.20	97.20	2.80	0 to 20	25 to 55	
4.75	40	0.80	98.00	2.00	0 to 5	0 to 10	

* As furnished by the Client.

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked By
Nagaraj.K.S

Approved By
Narayanswamy.B

.....End of Report.....

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/C-Agg/138/2019-20	Date	13.11.2019

TEST REPORT ON COARSE AGGREGATE

Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Job Code No	003-20-000070
Client's letter dated	11.11.2019
Source of Sample	Supplied by the Client
No. of Sample*	Coarse Aggregate - 20mm
Date of Testing	12.11.2019
Technical Reference	IS: 2386 (Part I)– 1963 IS: 383 – 2016

Gradation of 40mm Aggregate

40mm	Weight of Sample		5000		IS : 2386(Part-I)		Remarks
Sieve No	Wt of Aggregate	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0	0	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	458	9.16	9.16	90.84	85-100	90 to 100	
20	3128	62.56	71.72	28.28	0 to 20	30 to 70	
10	820	16.4	88.12	11.88	0 to 5	10 to 25	
4.75	350	7	95.12	4.88	-	0 to 5	

* As furnished by the Client.

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked By
Nagaraj.K.S

Approved By
Narayanswamy.B

End of Report

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/M-Sand/139/2019-20	Date	15.11.2019

TEST REPORT ON FINE AGGREGATES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Job Code No	003-02-000070
Client's letter dated	13.11.2019
Source of Sample	Supplied by the Client
No. of Sample*	Fine Aggregate- M-Sand
Date of Testing	14.11.2019
Technical Reference	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

Gradation of Fine Aggregate-M-Sand

Sieve No	Wt of soil	% tage retained	Cumulative % retained	% tage finer	Percentage passing for Zone I	Zone II	Zone III	Zone IV	Remarks
				100	100	100	100	100	
10	0	0	0	100	100	100	100	90-100	
4.75	2.6	0.26	0.26	99.74	90 – 100	90 – 100	90 – 100	95-100	Falls in Zone – 1 as per Table 4 of IS-383 – 2016
2.36	240	24.00	24.26	75.74	60 – 95	75 – 100	85 – 100	90-100	
1.18	248	24.80	49.06	50.94	30 – 70	55 – 90	75 – 100	80-100	
0.6	186	18.60	67.66	32.34	15 – 34	35 – 59	60 – 79	15-50	
0.3	124	12.40	80.06	19.94	5 – 20	8 – 30	12 – 40	0-15	
0.15	110.2	11.02	91.08	8.92	0 – 10	0 – 10	0 – 10		
Silt content				3.12	Shall not be more than 20%				Passes the requirements

* As furnished by the Client.

Note: The above Sample satisfies the requirement of Zone – 1 as per Table 4 of IS-383 – 2016

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked By
Nagaraj K.S

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Approved By
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/Steel/141/2019-20	Date of issue	25.11.2019

PHYSICAL TEST REPORT ON STEEL Reinforcement BARS

Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Job Code No	003-20-000070
Source of Sample	Supplied by Client
Sample Received on	23.11.2019
Nature of Sample*	Steel – 3Nos.(8,10,12mm)
Grade of Steel*	Fe-500 TMT Bars
Technical Reference	IS: 1786 – 2008 & IS: 1608–2005

Tensile Test

Sl No.	Grade of Steel	Dia (mm)	Weight / unit length (kg/m)	0.2% proof Stress (N/mm2)	Tensile Strength (N/mm2)	Percentage Elongation (on 5.65 √AG.L)	Remarks
1	Fe-500 TMT Bars	8	0.399	506.970	550.756	31.500	Passes
2		10	0.616	509.615	533.316	29.300	Passes

Bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Angle of bend	Observations
1	8	4 dia	180°	No cracks observed. Passes the test.
2	10	4 dia	180°	No cracks observed. Passes the test.

Re-bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Observations
1	8	5 dia	No cracks observed. Passes the test.
2	10	5 dia	No cracks observed. Passes the test.

* As furnished by the Client

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/Cement/140/2019-20	Date	22.11.2019

PHYSICAL TEST REPORT ON CEMENT

Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Job Code No	003-20-000070
Letter dated	20.11.2019
Sample Received on	Supplied by the Client
Source of Sample	Supplied by the Client
Date of Testing	21.11.2019
Type of cement & Brand of Cement*	*OPC Cement –ACC-43 Grade*
Technical Reference	IS: 403(Part I–VI) 1988 (Reaffirmed–2000) & IS: 8112-1989

Physical Properties

Sl. No.	Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1	Normal consistency in %	34	Not specified	-
2	Initial setting time in minutes	168	Shall not be less than 30 minutes	P
3	Final setting time in minutes	321	Shall not be more than 600 minutes	P

*As Furnished by the client

F: Fails IS requirements

P : Passes IS requirement

TTC : Test to be conducted

For Karnataka Material Test House Pvt. Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes-143/2019-20	Date of issue	09.01.2020

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhivrudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettihalli, Bengaluru-560094
Job Code No	003-20-000070
Work order Number	BBMP/EE/YNK.D/W.O/187/2019-20
Letter Dated	08.01.2020
Source of Sample	Supplied by the Client
Dimension of Specimens	151.62mm X 151.62mm X 150.80mm 150.00mm X 152.10mm X 150.48mm 151.41mm X 150.14mm X 150.82mm
Grade of Concrete *	M-20
Chainage in Meters	**Ch. 0.0 to 27.6 - 1st main LHS**

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below:

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	Raft Concrete (Drains)	11.12.2019	08.01.2020	28 Days	22864.29	8300	509.87	22.30
2		11.12.2019	08.01.2020		22888.00	8128	541.07	23.64
3		11.12.2019	08.01.2020		22644.11	8246	523.07	23.10

1 N/Sq.mm = 10Kg/Sq.cm. (Approx.)

*As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & Checked by
Nagaraj.K.S

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Approved by
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No : KMTH/CCKerbs/146/2019-20	Date of Issue	26.01.2020

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of the Project*	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work order Number	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Sample Received on	25.01.2020
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Date of Testing	

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F. H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	95.00	190.00	2.00	7085	118.2	16.68	1.00	16.68	20.86	20.85	2.8820	0.00135	2141.03
2	S-02	95.00	188.00	1.98	7085	118.2	16.68	1.00	16.65	20.81		3.1200	0.00133	2342.50
3	S-03	95.01	191.00	2.01	7086	118.2	16.68	1.00	16.70	20.87		2.9680	0.00135	2192.92

*As furnished by the Client

Remarks:

For Karnataka Material Test House Pvt. Ltd.,

Prepared & Checked by
Nagaraja K S

Approved by
Narayanswamy.B

.....End of Report.....

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes-148/2019-20 Date of issue 24.12.2019

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No 3, Yelahanka Satellite Town Sub Division
Job Code No	003-20-000070
Letter Dated	23.12.2019
Source of Sample	Supplied by the Client
Dimension of Specimens	150.00mm x 150.00mm x 150.00mm 150.00mm x 150.00mm x 150.00mm 150.00mm x 150.00mm x 150.00mm
Grade of Concrete *	M-10
Chainage in Meters	

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below:

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	PCC Concrete (Drains)	25.11.2019	23.12.2019	28 Days	22500	8210	262.35	11.66
2		25.11.2019	23.12.2019		22500	8136	290.25	12.90
3		25.11.2019	23.12.2019		22500	8066	262.80	11.68

1 N/Sq.mm = 10Kg/Sq.cm. (Approx.). *As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & Checked by
Rajaraj.K.S

Approved By
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No.KMTH/PMC/YD/2019-2020/W3

Date: 6.02.2020

To,

The Executive Engineer,
Yelahanka Satellite Town,
Sub Division, Bengaluru.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Sub: Regarding Quality report for the below mentioned work.

Name of work: Construction of Drains and Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No: 03, Yelahanka Satellite Town Sub Division.

Item No	Description of Work	Unit	Quantity	No of Samples Tested	Standards
1	KSRRB M 2900-01 Providing and Laying Plain Cement Concrete of Mix 1:4:8 with OPC @220Kgs With Crushed 40mm and Down Size Graded Granite.	Cum	291.67	6	Per 100 Cum
2	KSRRB M 2200-06 Providing TMT Steel Reinforcement for RCC WORK Including Straightening, Cutting, Bending, Hooking, Placing in Positions.	Ton	37.88	1	For each Dia
3	Providing and Laying Plain/Reinforced Cement Concrete for Side Drains using M20 Nominal Mix Concrete with OPC@300Kgs with 20mm Down Size.	Cum	576.77	12	Per 50 Cum
4	supplying and fixing precast reinforced concrete slab 100mm thick of mix M20 using 20mm and downside graded granite metal using reinforcement 10mm dia steel at 150mm c/c both ways Completed as per specification.	Sqm	1089	3	Per 500 Sqm

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5	Providing and fixing Pre cast solid concrete kerb stones of size 450 x 150 x 400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.	Sqm	1634	3	Per 500 Nos

With respect to the above Subject Name of work, we have inspected the work , Quantity and Quality of above mentioned Item of work was found to be satisfactorily completed for the 1st and Part Bill.

Thanking You,

With Regards,
Karnataka Material Test House Pvt Ltd.,

Narayanswamy.B
Managing Director

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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